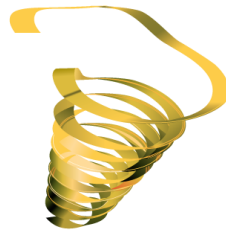


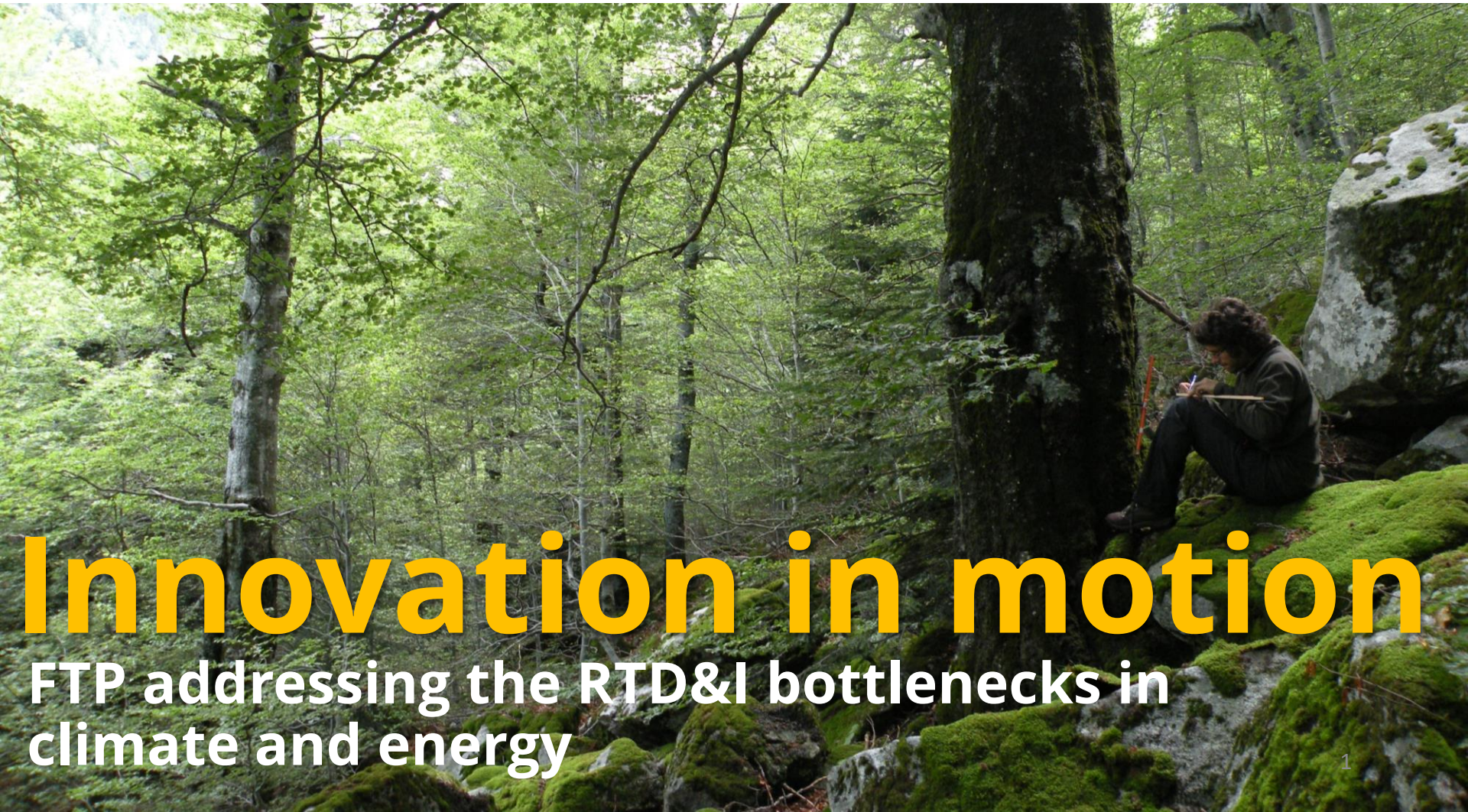
Forest-based Sector

Technology Platform



Johan Elvnert
FTP Managing Director

Press Breakfast | European Forestry House
12 July 2017 | Brussels | BELGIUM



Innovation in motion

FTP addressing the RTD&I bottlenecks in
climate and energy

Perceptions of the forest-based sector...



Vision and Strategy of the sector **matching** societal concerns

Societal concern: reduction of GHG emissions

- In EU** >> compliance with Effort-Sharing regulation bill
>> **LULUCF**: reduce GHG emissions by 40% below 1990 levels by 2030
>> Intensive soil exploitation; harvesting exceeding forest stock
- Global** >> cap global warming; 2°C target; compliance with Paris Agreement

Concern of forest owners today



Expected achievements by 2020 [RIA 1.1]

Based on quantitative data **the forest-based sector has proven to be one of the major mitigators of excessive CO₂ concentrations in the atmosphere.** The forest-based industries have developed new products and service concepts, which are produced with zero net-carbon emissions; they are able to replace a large number of products based on fossil and non-renewable resources.

Building with wood

**No rocket science,
but today's technology**

> **60%** reduction of CO₂ emissions if the European Parliament had been built with wood



This equals 1 years' CO₂ emissions from 10 thousand EU-citizens!



The Forest City: tradition meets innovation

The best strategy to immediately fulfil the Paris COP21 Climate Agreement is to build with wood!

Innovation in Action

- ✓ Modern and multi-storey wood constructions
- ✓ Low embodied energy
- ✓ Low weight
- ✓ High thermal insulation
- ✓ New wood-based buildings and cities!



© Estonian Timber/ Õigused püüratud

EU-funded research projects



HCLTP

Hybrid Cross Laminated Timber Plates



Raising the bar of sustainable forest management in Europe

Main challenges of forest terrain transport:

1. Cost/productivity
2. Accessibility (Seasonal and weather-induced impediment of forwarder mobility)
3. Damages to ground vegetation and soil on the forest-floor

Innovation in Action

- Solutions and technology exist on demo scale
- **Obstacle: Lack of risk funding**



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Vision and Strategy of the sector **matching** societal concerns

Societal concern: use of forest biomass for energy

- In EU** >> Intensive soil exploitation; harvesting exceeding forest stock
>> Land use competition with agriculture crops
- Global** >> Import of wooden logs from other global regions increasing risk of deforestation and biodiversity loss

Concern of forest owners today



FTP Vision Target #2

“... Bearing in mind the full range of demand and production constraints*, **harvesting possibilities in Europe have increased by 30% (until 2030)**, enabling forest owners to manage their forests more efficiently and sustainably.”

* In many regions specific forest growth is increasing and management is optimised for additional harvesting possibilities. In other regions, especially in the Mediterranean area, where the impact of climate change is predicted to be severe, creating resilient, stress-tolerant forest is particularly important. In some landscapes the main aim is nature conservation and providing ecosystem services.



Benefits for society?

Some figures...

- +120 Million m³ timber harvested each year
- + 5 bn Euro value for forest owners*

Or alternatively*:

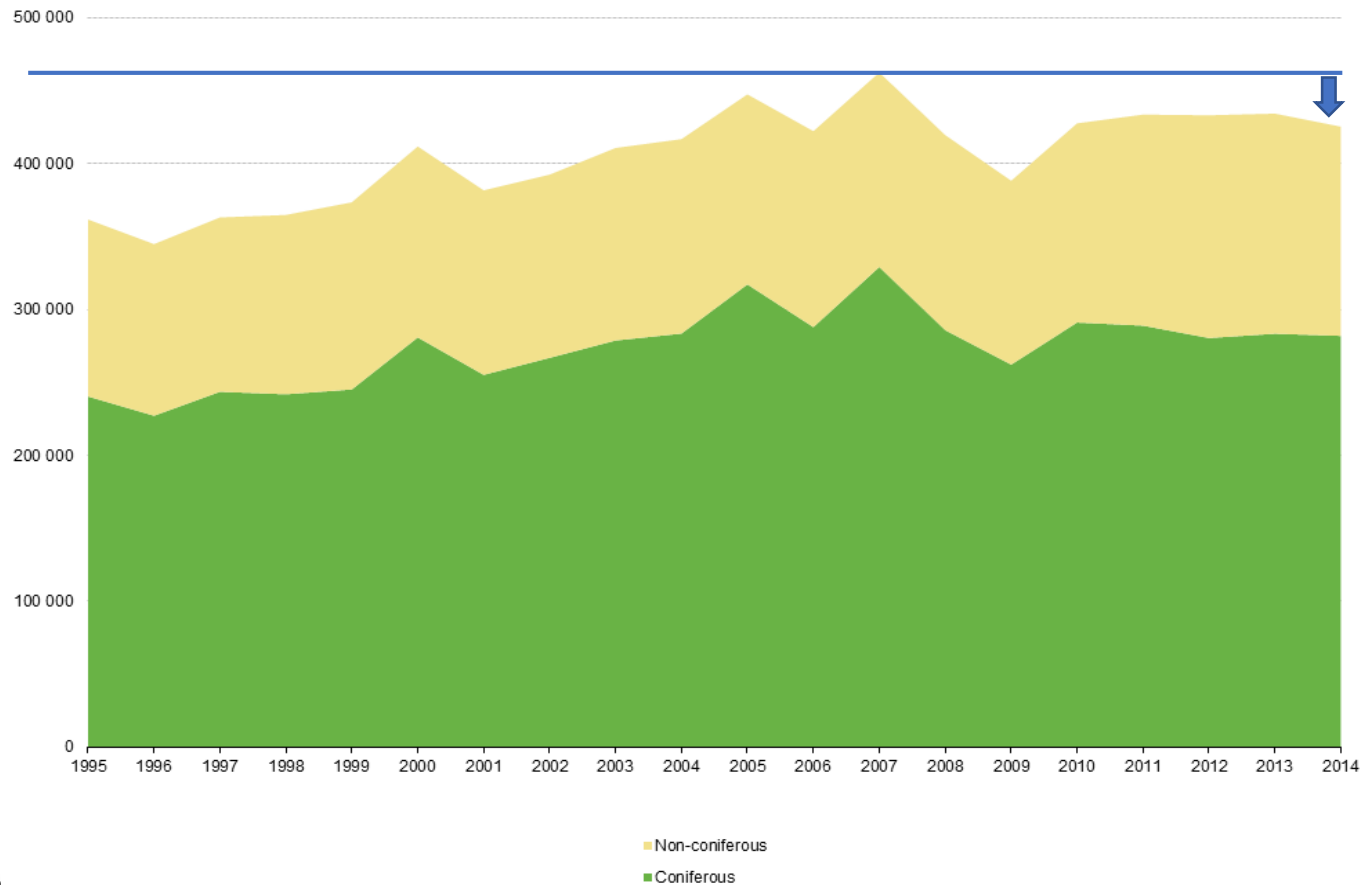
- +20 days of EU's total petroleum products consumption
- + ca 20 bn Euro value

But if the timber is utilised by the forest-based industries* = +75 bn Euro in value

** These figures are calculated using theoretical values and trade statistics. Precision is not guaranteed*

Annual production of roundwood, EU28

circa 650 m3 annual
increment below bark



Sustainable harvesting possibilities in Europe

Current and recent EU-funded research projects



Sustainable supply of abiotic and biotic raw materials in Europe

Aim: to coordinate raw materials research across different value-chains and national networks.

Deliverable: Research and Innovation Roadmap 2050 for EU Raw Materials



GENTREE

Optimizing the management and sustainable use of forest genetic resources in Europe

SLOPE Project

Integrated processing and control systems for sustainable forest production in mountain areas



How FTP works

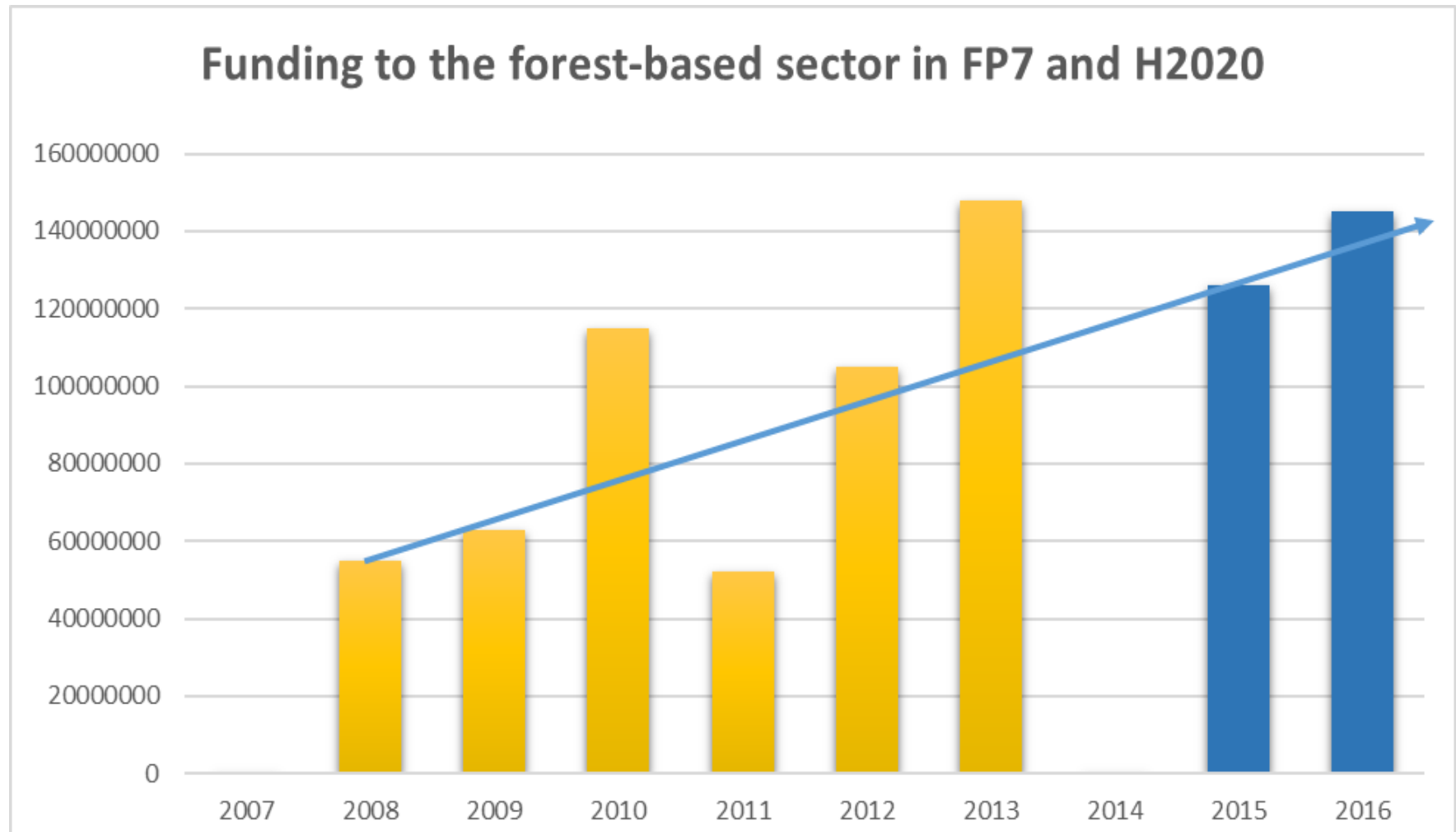
Mission

To implement the **European Strategic Research and Innovation Agenda (SRA)** for the benefit of the forest based sector's actors

- Create opportunities for cooperative research and innovation on a European level
- Set ambitious targets for research & innovation
- Mobilise a critical mass of research & innovation



EU R&D funding to the forest-based sector is increasing



**2014 was the initial year of the Framework Programme. Funding is allocated in the following year.*

Bottom up approaches



**FTP National Support Groups mobilise
a critical mass of knowledge on the
sector's RTD&I needs**

2. Organisation and stakeholders

Organisation

4 European Confederations
covering
Woodworking Industries
Pulp & Paper Industries
Private Forest Owners
State Forests



FTP Owners



FTP Board

**FTP Brussels
Office**

Supporting
International Companies

3 Research Umbrella Organisations



**Advisory Committee
(Chairs of the
National Support Groups)**



25 National Support Groups (NSG)

National Federations, Companies, Forest owners, Funding Agencies, Researchers



Forest-based Sector

Technology Platform



The European hub for research and innovation in the forest-based bioeconomy



www.forestplatform.org



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